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(54) Title: METHODS FOR DETECTING HALF-ANTIBODIES USING CHIP-BASED GEL ELECTROPHORESIS

(57) Abstract: The invention provides a method of using chip-based gel electrophoresis to determine the presence of polypeptides with selected disulfide linkage patterns, for example, completely formed tetrameric antibodies as compared to incompletely formed heterodimeric half-antibodies. The invention further features a kit, comprising a chip, and instructions for conducting the foregoing method. The methods and kits of the invention are amendable to high throughput applications for the monitoring of production and quality control of recombinant therapeutic antibodies.

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